

49

Sequence Listing

<210> 1

<211> 258

<212> PRT

<213> Artificial Sequence

<400> 1

Met Gln Gln Pro Phe Asn Tyr Pro Tyr Pro Gln Ile Tyr Trp Val

1 5 10 15

Asp Ser Ser Ala Ser Ser Pro Trp Ala Pro Pro Gly Thr Val Leu

20 25 30

Pro Cys Pro Thr Ser Val Pro Arg Arg Pro Gly Gln Arg Arg Pro

35 40 45

Pro Pro Pro Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Pro Pro

50 55 60

Pro Pro Leu Pro Pro Leu Pro Leu Pro Pro Leu Lys Lys Arg Gly

65 70 75

Asn His Ser Thr Gly Leu Cys Leu Leu Val Met Phe Phe Met Val

80 85 90

Leu Val Ala Leu Val Gly Leu Gly Leu Gly Met Phe Gln Leu Phe

95 100 105

His Leu Gln Lys Glu Pro Ser Pro Pro Pro Glu Lys Lys Glu Leu

110 115 120

Arg Lys Val Ala His Leu Thr Gly Lys Ser Asn Ser Arg Ser Met
135

<400> 2

Met Gln Gln Pro Phe Asn Tyr Pro Tyr Pro Gln Ile Tyr Trp Val
 1 5 10 15
 Asp Ser Ser Ala Ser Ser Pro Trp Ala Pro Pro Gly Thr Val Leu
 20 25 30
 Pro Cys Pro Thr Ser Val Pro Arg Arg Pro Gly Gln Arg Arg Pro
 35 40 45
 Pro Pro Pro Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Pro Pro
 50 55 60
 Pro Pro Leu Pro Pro Leu Pro Leu Pro Pro Leu Lys Lys Arg Gly
 65 70 75
 Asn His Ser Thr Gly Leu Cys Leu Leu Val Met Phe Phe Met Val
 80 85 90
 Leu Val Ala Leu Val Gly Leu Gly Leu Gly Met Phe Gln Leu Phe
 95 100 105
 His Leu Gln Lys Glu Leu Ala Glu Leu Arg Glu Ser Thr Ser Gln
 110 115 120
 Met His Thr Ala Ser Ser Leu Gly His Pro Ser Pro Pro Pro Glu
 125 130 135
 Lys Lys Glu Leu Arg Lys Val Ala His Leu Thr Gly Lys Ser Asn
 140 145 150
 Ser Arg Ser Met Pro Leu Glu Trp Glu Asp Thr Tyr Gly Ile Val
 155 160 165
 Leu Leu Ser Gly Val Lys Tyr Lys Lys Gly Gly Leu Val Ile Asn

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170	175	180
Glu Thr Gly Leu Tyr Phe Val Tyr Ser Lys Val Tyr Phe Arg Gly		
185	190	195
Gln Ser Cys Asn Asn Leu Pro Leu Ser His Lys Val Tyr Met Arg		
200	205	210
Asn Ser Lys Tyr Pro Gln Asp Leu Val Met Met Glu Gly Lys Met		
215	220	225
Met Ser Tyr Cys Thr Thr Gly Gln Met Trp Ala Arg Ser Ser Tyr		
230	235	240
Leu Gly Ala Val Phe Asn Leu Thr Ser Ala Asp His Leu Tyr Val		
245	250	255
Asn Val Ser Glu Leu Ser Leu Val Asn Phe Glu Glu Ser Gln Thr		
260	265	270
Phe Phe Gly Leu Tyr Lys Leu		
275	277	

<210> 3

<211> 281

<212> PRT

<213> Artificial Sequence

<400> 3

Met Gln Gln Pro Phe Asn Tyr Pro Tyr Pro Gln Ile Tyr Trp Val

1

5

10

15

Asp Ser Ser Ala Ser Ser Pro Trp Ala Pro Pro Gly Thr Val Leu

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20	25	30
Pro Cys Pro Thr Ser Val Pro Arg Arg Pro Gly Gln Arg Arg Pro		
35	40	45
Pro Pro Pro Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Pro Pro		
50	55	60
Pro Pro Leu Pro Pro Leu Pro Leu Pro Pro Leu Lys Lys Arg Gly		
65	70	75
Asn His Ser Thr Gly Leu Cys Leu Leu Val Met Phe Phe Met Val		
80	85	90
Leu Val Ala Leu Val Gly Leu Gly Leu Gly Met Phe Gln Leu Phe		
95	100	105
His Leu Gln Lys Glu Leu Ala Glu Leu Arg Glu Ser Thr Ser Gln		
110	115	120
Met His Thr Ala Ser Ser Leu Glu Ala Gln Ile Gly His Pro Ser		
125	130	135
Pro Pro Pro Glu Lys Lys Glu Leu Arg Lys Val Ala His Leu Thr		
140	145	150
Gly Lys Ser Asn Ser Arg Ser Met Pro Leu Glu Trp Glu Asp Thr		
155	160	165
Tyr Gly Ile Val Leu Leu Ser Gly Val Lys Tyr Lys Lys Gly Gly		
170	175	180
Leu Val Ile Asn Glu Thr Gly Leu Tyr Phe Val Tyr Ser Lys Val		
185	190	195
Tyr Phe Arg Gly Gln Ser Cys Asn Asn Leu Pro Leu Ser His Lys		

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200	205	210
Val Tyr Met Arg Asn Ser Lys Tyr Pro Gln Asp Leu Val Met Met		
215	220	225
Glu Gly Lys Met Met Ser Tyr Cys Thr Thr Gly Gln Met Trp Ala		
230	235	240
Arg Ser Ser Tyr Leu Gly Ala Val Phe Asn Leu Thr Ser Ala Asp		
245	250	255
His Leu Tyr Val Asn Val Ser Glu Leu Ser Leu Val Asn Phe Glu		
260	265	270
Glu Ser Gln Thr Phe Phe Gly Leu Tyr Lys Leu		
275	280 281	

<210> 4

<211> 774

<212> DNA to RNA

<213> Artificial Sequence

<400> 4

ATG CAG CAG CCC TTC AAT TAC CCA TAT CCC CAG ATC TAC TGG GTG	45
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CCC TGT CCA ACC TCT GTG CCC AGA AGG CCT GGT CAA AGG AGG CCA	135
CCA CCA CCA CCG CCA CCG CCA CCA CTA CCA CCT CCG CCG CCG CCG	180
CCA CCA CTG CCT CCA CTA CCG CTG CCA CCC CTG AAG AAG AGA GGG	225
AAC CAC AGC ACA GGC CTG TGT CTC CTT GTG ATG TTT TTC ATG GTT	270
CTG GTT GCC TTG GTA GGA TTG GGC CTG GGG ATG TTT CAG CTC TTC	315

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CAC CTA CAG AAG GAG CCC AGT CCA CCC CCT GAA AAA AAG GAG CTG 360
AGG AAA GTG GCC CAT TTA ACA GGC AAG TCC AAC TCA AGG TCC ATG 405
CCT CTG GAA TGG GAA GAC ACC TAT GGA ATT GTC CTG CTT TCT GGA 450
GTG AAG TAT AAG AAG GGT GGC CTT GTG ATC AAT GAA ACT GGG CTG 495
TAC TTT GTA TAT TCC AAA GTA TAC TTC CGG GGT CAA TCT TGC AAC 540
AAC CTG CCC CTG AGC CAC AAG GTC TAC ATG AGG AAC TCT AAG TAT 585
CCC CAG GAT CTG GTG ATG ATG GAG GGG AAG ATG ATG AGC TAC TGC 630
ACT ACT GGG CAG ATG TGG GCC CGC AGC AGC TAC CTG GGG GCA GTG 675
TTC AAT CTT ACC AGT GCT GAT CAT TTA TAT GTC AAC GTA TCT GAG 720
CTC TCT CTG GTC AAT TTT GAG GAA TCT CAG ACG TTT TTC GGC TTA 765
TAT AAG CTC 774

<210> 5

<211> 831

<212> DNA

<213> Artificial Sequence

<400> 5

ATG CAG CAG CCC TTC AAT TAC CCA TAT CCC CAG ATC TAC TGG GTG 45
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CCC TGT CCA ACC TCT GTG CCC AGA AGG CCT GGT CAA AGG AGG CCA 135
CCA CCA CCA CCG CCA CCG CCA CCA CTA CCA CCT CCG CCG CCG CCG 180
CCA CCA CTG CCT CCA CTA CCG CTG CCA CCC CTG AAG AAG AGA GGG 225
AAC CAC AGC ACA GGC CTG TGT CTC CTT GTG ATG TTT TTC ATG GTT 270
CTG GTT GCC TTG GTA GGA TTG GGC CTG GGG ATG TTT CAG CTC TTC 315

CAC CTA CAG AAG GAG CTG GCA GAA CTC CGA GAG TCT ACC AGC CAG 360
ATG CAC ACA GCA TCA TCT TTG GGC CAC CCC AGT CCA CCC CCT GAA 405
AAA AAG GAG CTG AGG AAA GTG GCC CAT TTA ACA GGC AAG TCC AAC 450
TCA AGG TCC ATG CCT CTG GAA TGG GAA GAC ACC TAT GGA ATT GTC 495
CTG CTT TCT GGA GTG AAG TAT AAG AAG GGT GGC CTT GTG ATC AAT 540
GAA ACT GGG CTG TAC TTT GTA TAT TCC AAA GTA TAC TTC CGG GGT 585
CAA TCT TGC AAC AAC CTG CCC CTG AGC CAC AAG GTC TAC ATG AGG 630
AAC TCT AAG TAT CCC CAG GAT CTG GTG ATG ATG GAG GGG AAG ATG 675
ATG AGC TAC TGC ACT ACT GGG CAG ATG TGG GCC CGC AGC AGC TAC 720
CTG GGG GCA GTG TTC AAT CTT ACC AGT GCT GAT CAT TTA TAT GTC 765
AAC GTA TCT GAG CTC TCT CTG GTC AAT TTT GAG GAA TCT CAG ACG 810
TTT TTC GGC TTA TAT AAG CTC 831

<210> 6

<211> 843

<212> DNA

<213> Artificial Sequence

<400> 6

ATG CAG CAG CCC TTC AAT TAC CCA TAT CCC CAG ATC TAC TGG GTG 45
GAC AGC AGT GCC AGC TCT CCC TGG GCC CCT CCA GGC ACA GTT CTT 90
CCC TGT CCA ACC TCT GTG CCC AGA AGG CCT GGT CAA AGG AGG CCA 135
CCA CCA CCA CCG CCA CCG CCA CCA CTA CCA CCT CCG CCG CCG CCG 180
CCA CCA CTG CCT CCA CTA CCG CTG CCA CCC CTG AAG AAG AGA GGG 225
AAC CAC AGC ACA GGC CTG TGT CTC CTT GTG ATG TTT TTC ATG GTT 270

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CTG GTT GCC TTG GTA GGA TTG GGC CTG GGG ATG TTT CAG CTC TTC 315
CAC CTA CAG AAG GAG CTG GCA GAA CTC CGA GAG TCT ACC AGC CAG 360
ATG CAC ACA GCA TCA TCT TTG GAG GCA CAA ATA GGC CAC CCC AGT 405
CCA CCC CCT GAA AAA AAG GAG CTG AGG AAA GTG GCC CAT TTA ACA 450
GGC AAG TCC AAC TCA AGG TCC ATG CCT CTG GAA TGG GAA GAC ACC 495
TAT GGA ATT GTC CTG CTT TCT GGA GTG AAG TAT AAG AAG GGT GGC 540
CTT GTG ATC AAT GAA ACT GGG CTG TAC TTT GTA TAT TCC AAA GTA 585
TAC TTC CGG GGT CAA TCT TGC AAC AAC CTG CCC CTG AGC CAC AAG 630
GTC TAC ATG AGG AAC TCT AAG TAT CCC CAG GAT CTG GTG ATG ATG 675
GAG GGG AAG ATG ATG AGC TAC TGC ACT ACT GGG CAG ATG TGG GCC 720
CGC AGC AGC TAC CTG GGG GCA GTG TTC AAT CTT ACC AGT GCT GAT 765
CAT TTA TAT GTC AAC GTA TCT GAG CTC TCT CTG GTC AAT TTT GAG 810
GAA TCT CAG ACG TTT TTC GGC TTA TAT AAG CTC 843

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